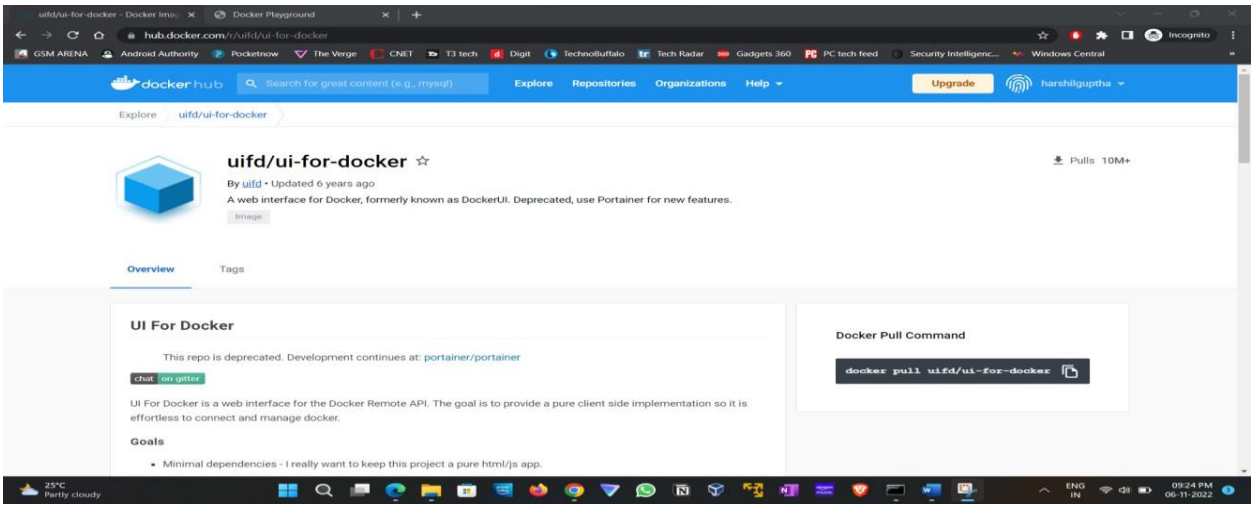
ASSIGNMENT - 4

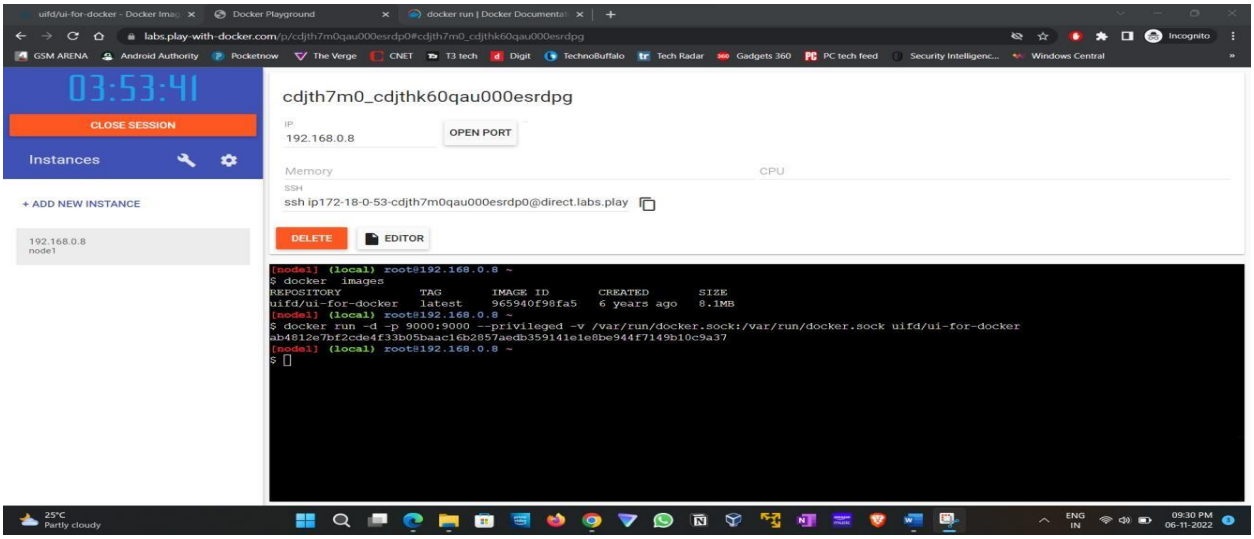
Assignment date	06 November 2022
Student name	BLESSY JEFRINA H
Student roll no	711719104017
Team ID	PNT2022TMID31589

1.Pull an Image from docker hub and run it in docker playground.

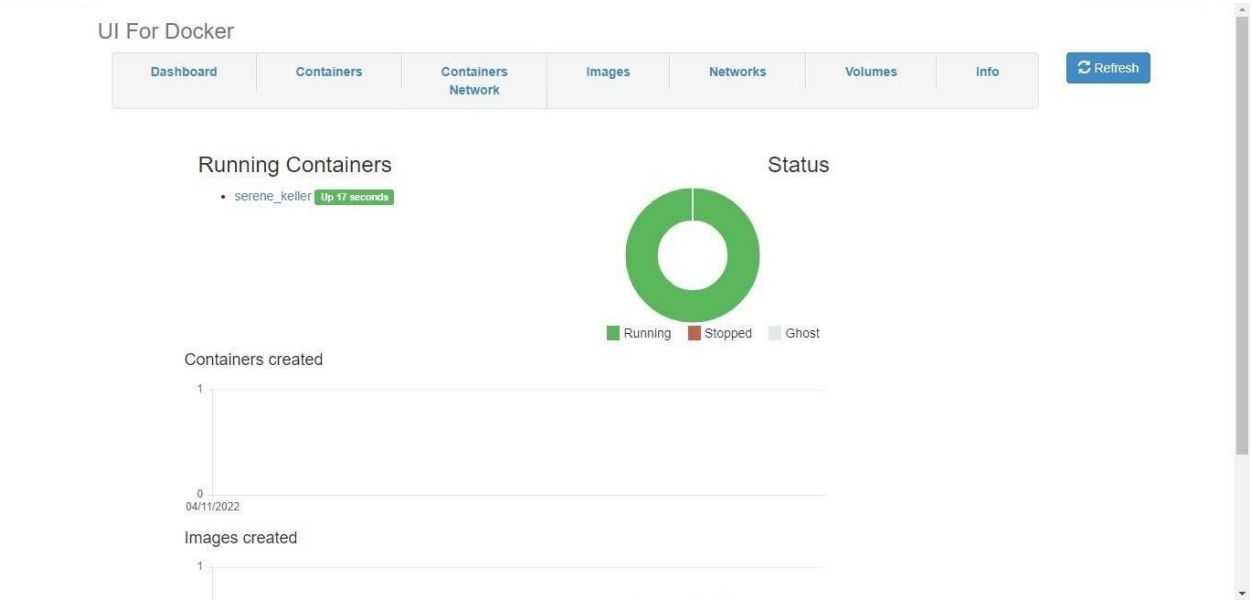
docker pull uifd/ui-for-docker
docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker



Docker playground:



Docker UI:



2.Create a docker file for the job portal application and deploy it in Docker desktop application.

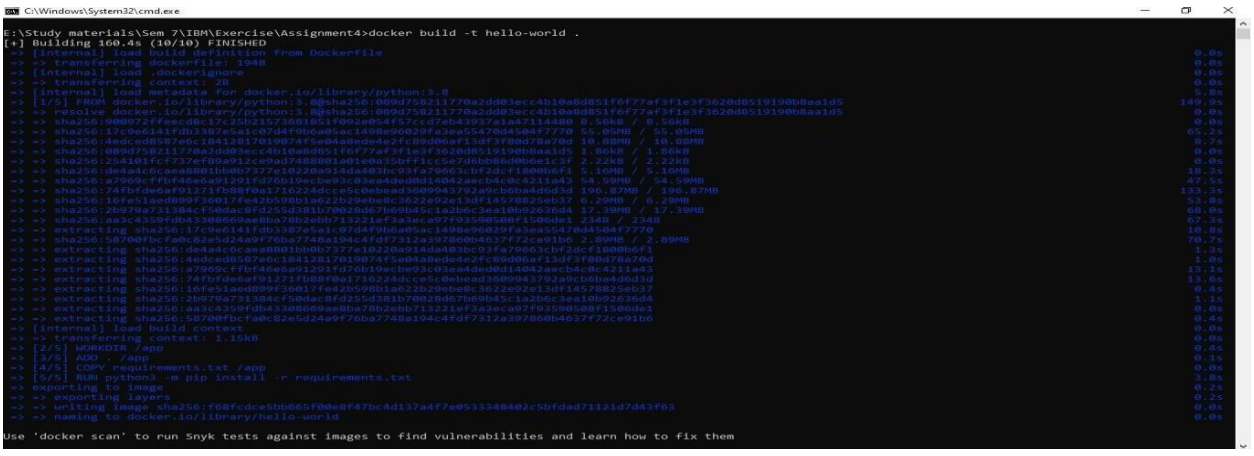
DockerFile

Dockerfile - Notepad

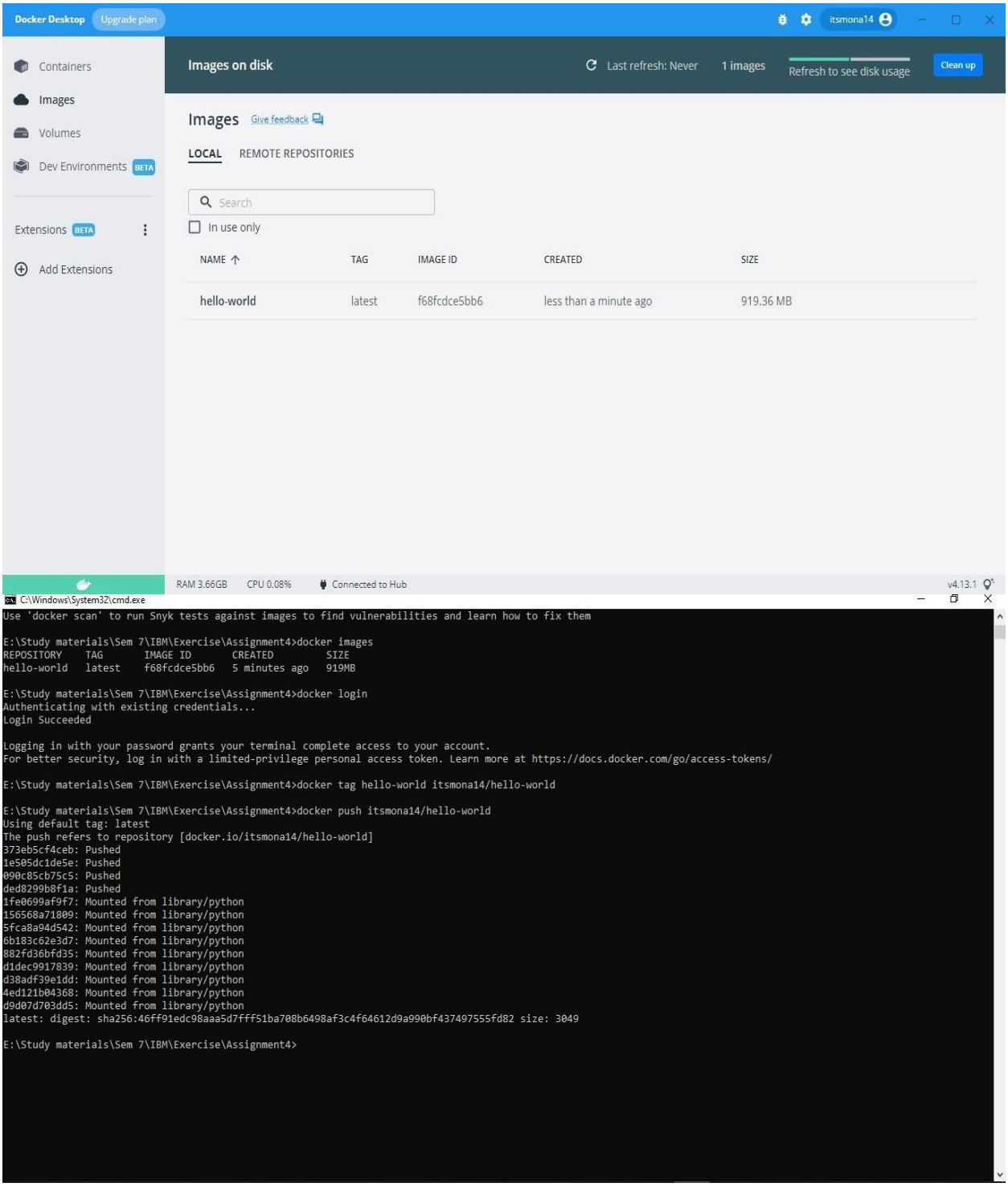
File Edit Format View Help

```
FROM python:3.8
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
EXPOSE 5000
CMD ["python","app.py"]
```

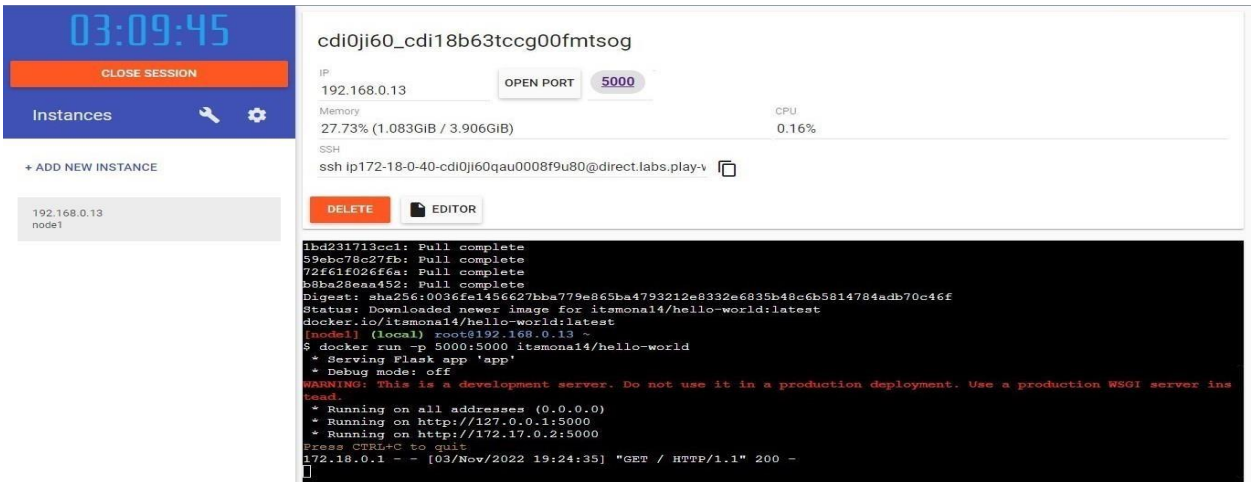
Bulid Docker image



Deploy it on Docker hub

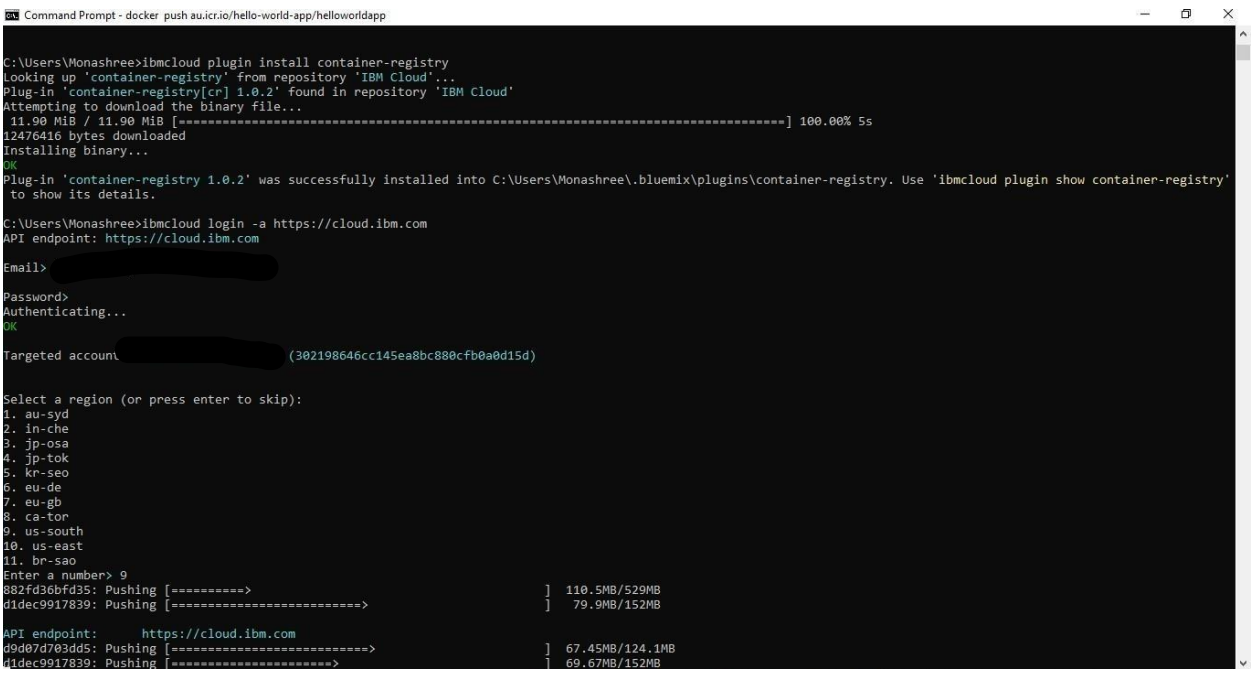


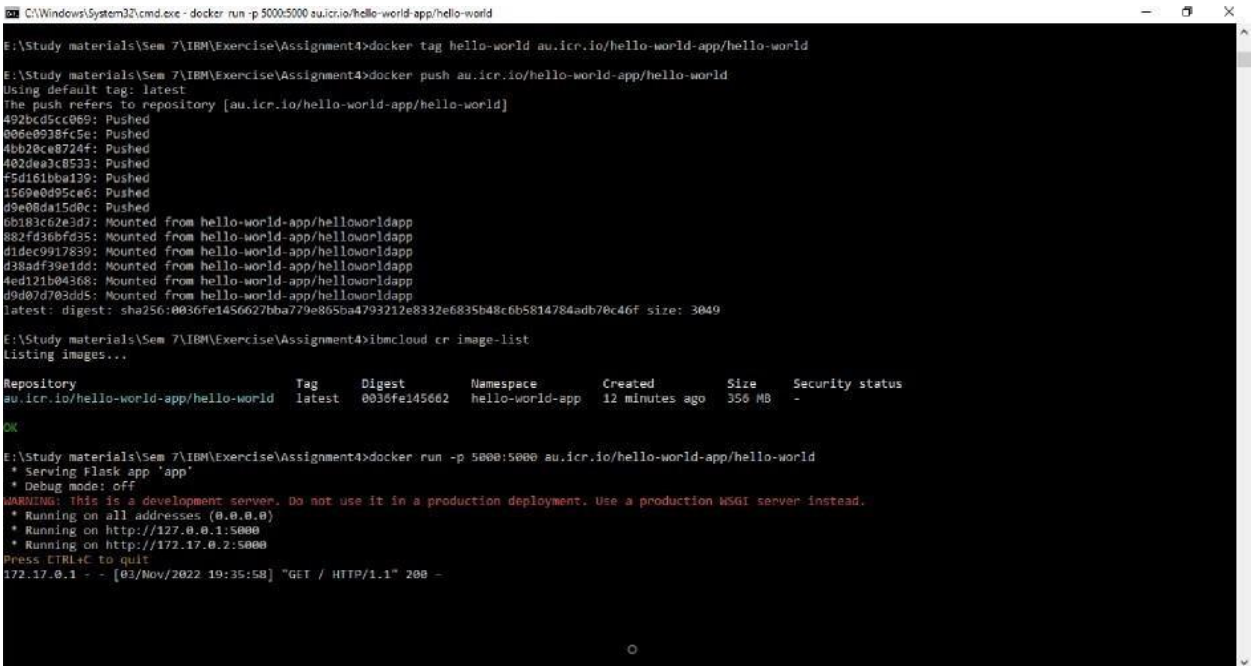
Tested it using Docker playground

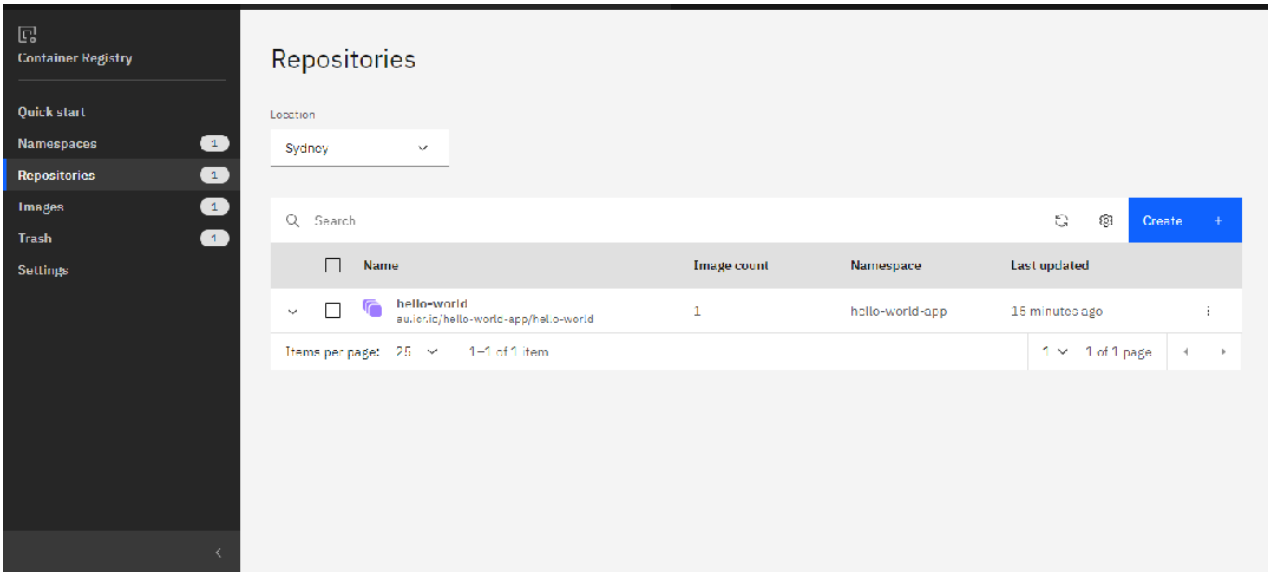


3.Create a IBM container registry and deploy hello world app or job portal app.

My image link: au.icr.io/hello-world-app/hello-world





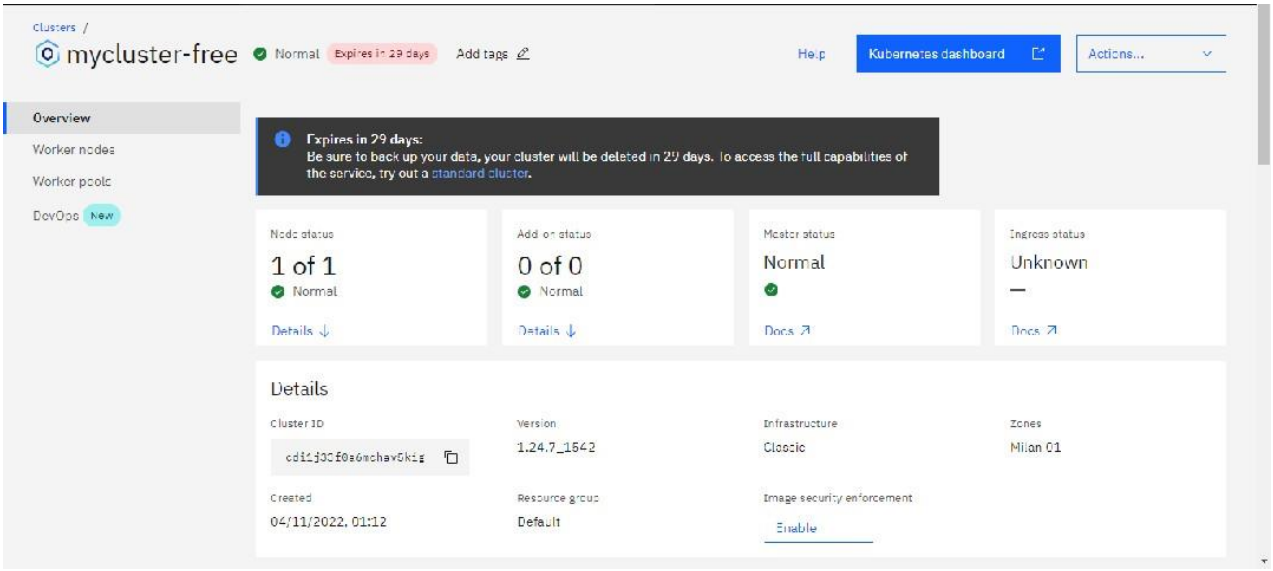


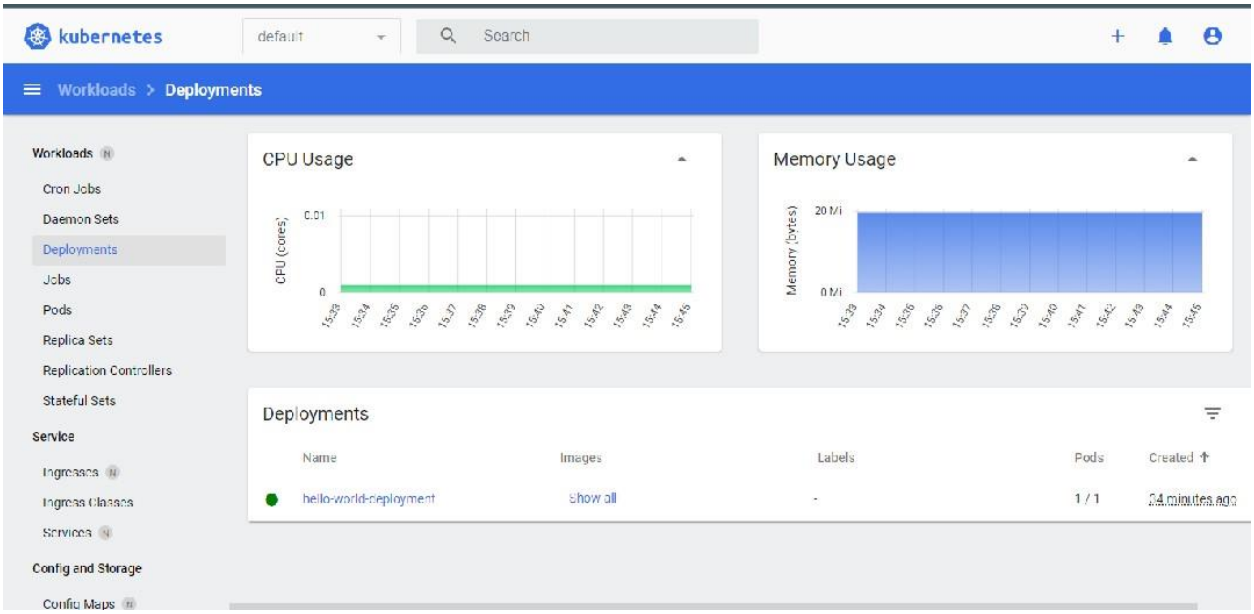
4.Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

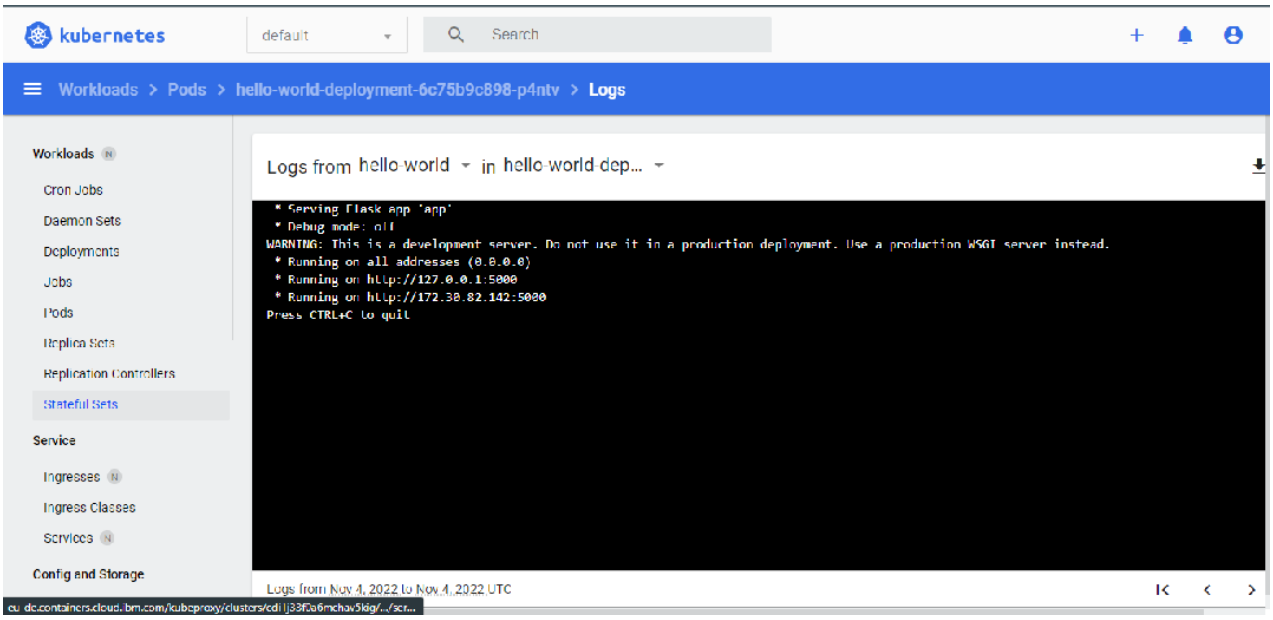
https://raw.githubusercontent.com/itsmona14/IBM-Assignment-cloud/main/deployment.yaml

```
apiVersion: v1kind: Service metadata:
   name: hello-world-deploymentspec:
ports:
- port: 5000
  targetPort: 5000selector:
```

```
  app: hello-world
  ---
  apiVersion: apps/v1kind: Deployment metadata:
     name: hello-world-deploymentspec:
  replicas: 1selector:
  matchLabels:
      app: hello-worldtemplate:
metadata:labels:
      app: hello-worldspec:
  containers:
  - name: hello-world
  image: au.icr.io/hello-world-app/hello-worldimagePullPolicy: Always
  ports:
  - containerPort: 5000
```






kubernetes
default
Search
Workloads > Pods > hello-world-deployment-6c75b9c898-p4ntv > Logs
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Logs from hello-world in hello-world-dep...
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.30.82.142:5000
Press CTRL+C to quit
Logs from Nov 4, 2022 to Nov 4, 2022 UTC